

GenCore version 5.1.6
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OM nucleic - protein search, using frame_plus_n2p model

Run on: February 9, 2005, 17:36:14 ; Search time 0.5 Seconds
(without alignments)
1.742 Million cell updates/sec

Title: US-09-824-134-1
Perfect score: 3092
Sequence: 1 GTGAATCAGCAGCCGAGTG.....ACAAAAA.....1701

Scoring table: BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 1 seqs, 256 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Command line parameters:
-MODEL=frame_n2p.model -DEV=soft -Q=US09824134.seq -DB=US09824134.pep
-SUFFIX=ptc -OUT=US09824134-1-land2-align -MINMATCH=0.1 -LOOPCL=0 -LOOPEXT=0
-UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45
-DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15 -MODE=LOCAL
-OUTEXT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000 -NCPU=6
-NO_XLPXY -NEG SCORES=0 -LONGLOG -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : US09824134.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1302	42.1	256	1	US-09-824-134-2
2	48	1.6	256	1	US-09-824-134-2
C					Sequence 2, Appli
					Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-09-824-134-2
; Sequence 2, Application US/09824134
; GENERAL INFORMATION:
; APPLICANT: WALLACH, David
; BOLDIN, Mark
; VARFOLOMEEV, Eugene
; METT, Igor
; TITLE OF INVENTION: MODULATORS OF THE FUNCTION OF FAS/APO1
; RECEPTORS
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BROWDY AND NEIMARK, P.L.L.C.
; STREET: 419 Seventh Street N.W., Ste. 300
; CITY: Washington

STATE: D.C.
COUNTRY: United States of America
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/824,134
FILING DATE: 03-Apr-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/860,082
FILING DATE: <Unknown>
APPLICATION NUMBER: IL 112022
FILING DATE: 15-DEC-1994
APPLICATION NUMBER: IL 112692
FILING DATE: 19-FEB-1995
APPLICATION NUMBER: IL 114615
FILING DATE: 16-JUL-1995
ATTORNEY/AGENT INFORMATION:
NAME: BROWDY, Roger L.
REGISTRATION NUMBER: 25,618
REFERENCE/DOCKET NUMBER: WALLACH=16
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 628-5197
TELEFAX: (202) 737-3528
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 256 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-824-134-2
Alignment Scores:
Pred. No.: 0 Length: 256
Score: 1302.00 Matches: 256
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 42.11% Indels: 0
DB: 1 Gaps: 0
US-09-824-134-1 (1-1701) x US-09-824-134-2 (1-256)
QY 1 GTGAATCAGCAGCCGAGTGCGAGTTCGGGGTGGATCCTTGGGCGCTGGCGACGCG 60
DB 1 ValAsnGlnAlaProGluCysArgPheGlyGlyGlyLeuGlyProLeuGlyLysArg 20
QY 61 CGAGACCTGGCCAGGCGCAGCGAGCGAGGAGGCGCGGAGGCGCGGCGCGCGAG 120
DB 21 ArgAspLeuAlaArgAlaSerGluProArgThrGluGlyAlaArgAlaGlyProGln 40
QY 121 CCCCAGCCGCTTGCAGACCCCGCCATGAGCCGCTTCTGGTGTCTGCTGCACTCGGTGTCG 180
DB 41 ProArgProLeuAlaAspProAlaMetAspProPheLeuValLeuLeuHisSerValSer 60
QY 181 TCCAGCCTGTGCAGCAGCGAGCTGACCGAGCTCAAGTTCCTATGCTCCGGCGCGTGGTC 240
DB 61 SerSerLeuSerSerSerGluLeuThrGluLeuLysPheLeuCysLeuGlyArgValVal 80
QY 241 AAGCGCAAGCTGGAGCGCGTGCAGAGCGGCTAGACCTCTTCTCCATGTCTGCTGGAGCAG 300
DB 81 LysArgLysLeuGluArgValGlnSerGlyLeuAspLeuPheSerMetLeuLeuGluGln 100
QY 301 AACGACCTGGAGCCCGGCGACACCGAGCTCTGCGGAGCTGCTCCGCTCCCTTGGCGCGC 360
DB 101 AsnAspLeuGluProGlyHisThrGluLeuLeuArgGluLeuAlaSerLeuArgArg 120
QY 361 CAGGACCTGTGGCGCGCTGCAGCAGCTTCGAGCGGGCGGCGCGCGCGCGCGCGCT 420
DB 121 HisAspLeuLeuArgArgValAspPheGluAlaGlyAlaAlaGlyAlaAlaPro 140

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 11, 2005, 11:53:56 ; Search time 74 Seconds
(without alignments)
606.273 Million cell updates/sec

Title: US-09-824-134-2_COPY_130_245

Perfect score: 593

Sequence: 1 FEAGAAAGAPGEEDLCAAF.....QEYQQAQDLQNRGAMSPMS 116

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105692

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : A Geneseq_16Dec04:*

- 1: geneseqp1980s:*
- 2: geneseqp1980s:*
- 3: geneseqp2000s:*
- 4: geneseqp2001s:*
- 5: geneseqp2002s:*
- 6: geneseqp2003as:*
- 7: geneseqp2003bs:*
- 8: geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	593	100.0	208	2 AAW03653	FADD (Fas
2	593	100.0	208	2 AAW96154	Human FAD
3	593	100.0	208	3 AAY51329	Human FAD
4	593	100.0	208	4 AAB84804	Human FAD
5	593	100.0	208	6 ABR62711	Human FAD
6	593	100.0	208	7 ADD25629	Binding d
7	593	100.0	208	7 ADD25623	Binding d
8	593	100.0	208	8 ABM81285	Tumour-as
9	593	100.0	208	8 ADS88167	Human pro
10	593	100.0	211	7 ADD25847	Binding d
11	593	100.0	256	2 AAR98346	MORT-1 mo
12	593	100.0	256	2 AAW11894	Modulator
13	589	99.3	201	2 AAW87492	Amino aci
14	589	99.3	201	2 AAW87493	Amino aci
15	586	98.8	201	2 AAW87491	Amino aci
16	586	98.8	208	4 AAB61119	Human FAD
17	382.5	64.5	205	4 AAB61900	Mouse apo
18	382.5	64.5	210	7 ADD25857	Binding d
19	382	64.4	74	6 ADA49711	Death dom
20	380.5	64.2	205	6 ABR62712	Mouse FAD
21	357.5	60.3	117	4 AAB61902	Mouse apo
22	351	59.2	95	5 ABR75682	Fas-associ
23	346	58.3	99	5 ABB81754	Tumour ne
24	331	55.8	93	5 ABR75684	Fas-associ
25	331	55.8	93	5 ABR75685	Fas-associ

ALIGNMENTS

RESULT 1

AAW03653

ID AAW03653 standard; protein; 208 AA.

XX AC AAW03653;

XX 22-FEB-1997 (first entry)

XX DE FADD (Fas-associating protein with novel death domain) protein.

XX KW Human; FADD; Fas-associating protein with novel death domain; apoptosis;

XX KW Fas receptor; death domain; gene therapy; antibody; immunocassay;

XX KW drug screening; diagnostic; AIDS; antiinflammatory; antitumour;

XX KW cerebroprotective; neuroprotective.

XX OS Homo sapiens.

XX FH Key

FT Region 1..125

FT FT /note= "N-terminal fragment, inducing apoptosis but not

FT FT binding to Fas receptor"

FT FT 35..208

FT FT /note= "C-terminal active fragment"

FT FT 41..208

FT FT /note= "C-terminal active fragment"

FT FT 42..208

FT FT /note= "Fas receptor-binding NFD-2 polypeptide"

FT FT 61..208

FT FT /note= "Fas receptor-binding NFD-3 polypeptide"

FT FT 80..208

FT FT /note= "Fas receptor-binding NFD-4 polypeptide"

FT FT 111..177

FT FT /note= "Death domain"

FT FT Misc-difference 121

FT FT /note= "Altered to Asn in FADDmt mutant"

PN WO9631603-A2.

XX XX 10-OCT-1996.

PD PD 28-FEB-1996; 96WO-US002857.

XX XX 03-APR-1995; 95US-00416379.

PR PR 18-MAY-1995; 95US-00443982.

XX XX (UNMI) UNIV MICHIGAN.

XX XX Dixit VM, Orourke K;

ABG75683 Fas-associ
AAW00210 Human MOR
ADG42592 NOVI doma
ADG42594 NOVI doma
AAW04627 Mouse rec
AAW80994 Human rec
ADG08537 Human pro
ABU11523 Human MDD
ADR90358 Full leng
ADR47763 Human pro
ABG23202 Drosophil
ADG08901 Recombina
ADG08899 Recombina
ADM05095 Human pro
AAW15461 Human rec
AAW04628 Human rec
AAY78502 Human RIP
AAB2091 Human Rec
ABG16302 Novel hum
AAU80370 Human cel

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XX WPI; 1996-465026/46.
DR N-PSDB; AAT39397.
XX
PT FADD protein that binds to cytoplasmic region of Fas receptor - for
PT identifying inhibitors of Fas-associated apoptosis useful for treating
PT e.g. AIDS, leukaemia, stroke, etc.
XX
XX Example 1; Fig 2A-B; 96pp; English.
XX
CC The sequence corresponds to FADD (Fas-associating protein with novel
CC death domain), which binds the cytoplasmic region of a Fas receptor, and
CC modulates apoptosis induced by activation of the receptor by ligand
CC binding. The FADD cDNA has been isolated using a yeast two-hybrid system
CC to screen for proteins interacting with the Fas cytoplasmic domain. The
CC protein contains a death domain, with interacts with the death domain of
CC Fas. Mutation of Val-121 to Asn in mutant FADDmt disrupts binding and/or
CC signalling properties. C-terminal polypeptides NFD-2, NFD-3 and NFD-4
CC bind the Fas receptor cytoplasmic domain in vitro. An N-terminal fragment
CC induces apoptosis but does not bind the Fas receptor. The encoding DNA
CC may be used in gene therapy, and the protein or a corresponding antibody
CC may be used to screen for agents modulating FADD pathway cellular
CC functions and Fas-associated apoptosis, for use in therapy of e.g. AIDS,
CC inflammation, leukaemia, myocardial infarction, degenerative disease, etc
XX
SQ Sequence 208 AA;

Query Match 100.0%; Score 593; DB 2; Length 208;
Best Local Similarity 100.0%; Pred. No. 1.9e-63;
Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FEAGAAAGAPGEEDLCAAFNVICDNVGDWRRLARQLKVSDDTKIDSIEDRYPRNLTERV 60
DB 82 FEAGAAAGAPGEEDLCAAFNVICDNVGDWRRLARQLKVSDDTKIDSIEDRYPRNLTERV 141
QY 61 RESLRWKNTEKENATVAHLVGLALRSQMNVLADLVQEVQQAARDLQNRSGAMSPMS 116
DB 142 RESLRWKNTEKENATVAHLVGLALRSQMNVLADLVQEVQQAARDLQNRSGAMSPMS 197

RESULT 2
AAW96154
ID AAW96154 standard; protein; 208 AA.
XX
AC AAW96154;
XX
DT 27-APR-1999 (first entry)
DE Human FADD protein.
XX
KW FIP; FADD interacting protein; FADD;
KW Fas-associated protein with a novel death domain; cell death; apoptosis;
KW Alzheimer's disease; Acquired Immune Deficiency Syndrome; AIDS;
KW muscular dystrophy; amyotrophic lateral sclerosis; virus; bacteria;
KW fungus; mycoplasma; protozoa; neoplasia; dysplasia; hyperplasia.
XX
OS Homo sapiens.
XX
FN WO9900499-A1.
XX
PD 07-JAN-1999.
XX
PF 26-JUN-1998; 98WO-US013320.
XX
PR 26-JUN-1997; 97US-0050792P.
PR 03-JUN-1998; 98US-0087886P.
XX
PA (CHIR ) CHIRON CORP.
XX
PI Chen TT, Williams LT;
XX
DR WPI; 1999-095745/08.
DR N-PSDB; AAX08910.

XX New FADD (Fas-associated protein with a novel death domain)-Interacting
XX Protein - useful for inducing or preventing apoptosis in a cell, to aid
XX in controlling apoptosis-related diseases.
XX
XX Disclosure; Page 47; 58pp; English.
XX
XX An epitope of human FADD (Fas-associated protein with a novel death
XX domain)-Interacting protein (FIP protein) comprising amino acids 348-727
XX of the protein described in AAW96153, can be used to induce or prevent
XX apoptosis in a cell. Specifically, decreasing the levels of FIP348-727
XX prevents apoptosis. This is useful in cells which are dying prematurely,
XX eg: Alzheimer's disease, Acquired Immune Deficiency Syndrome (AIDS),
XX muscular dystrophy, amyotrophic lateral sclerosis (and other muscle
XX wasting diseases), autoimmune diseases, and diseases where cells are
XX infected with a pathogen (virus, bacteria, fungus, mycoplasma or
XX protozoa). Increasing the levels of FIP 348-727 induces apoptosis which
XX is useful in cells suffering from neoplasias, dysplasias, hyperplasias,
XX or their symptoms. Purified and isolated FIP subgenomic polynucleotides
XX are useful as primers to obtain more copies of the nucleotides, and as
XX probes that identify wild-type or mutant coding sequences. They are also
XX useful for expressing FIP mRNA, proteins or fusion proteins, and in the
XX generation of FIP antisense oligonucleotides and ribozymes. They are also
XX useful in expression constructs and in gene delivery vehicles (optionally
XX in combination with a condensing agent) that deliver FIP mRNA or
XX oligonucleotides, FIP proteins (including variants), FIP-specific
XX ribozymes or single-chain antibodies into eukaryotic cells. This is the
XX human FADD protein. Human FIP protein binds to amino acids 1-110 of this
XX sequence
XX
XX Sequence 208 AA;

Query Match 100.0%; Score 593; DB 2; Length 208;
Best Local Similarity 100.0%; Pred. No. 1.9e-63;
Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FEAGAAAGAPGEEDLCAAFNVICDNVGDWRRLARQLKVSDDTKIDSIEDRYPRNLTERV 60
DB 82 FEAGAAAGAPGEEDLCAAFNVICDNVGDWRRLARQLKVSDDTKIDSIEDRYPRNLTERV 141
QY 61 RESLRWKNTEKENATVAHLVGLALRSQMNVLADLVQEVQQAARDLQNRSGAMSPMS 116
DB 142 RESLRWKNTEKENATVAHLVGLALRSQMNVLADLVQEVQQAARDLQNRSGAMSPMS 197

RESULT 3
AAW51329
ID AAW51329 standard; protein; 208 AA.
XX
AC AAW51329;
XX
DT 19-APR-2000 (first entry)
XX
DE Human FADD protein.
XX
KW FADD; human; antisense; inhibitor; Fas-associated death domain.
XX
OS Homo sapiens.
XX
FN US6015712-A.
XX
PD 18-JAN-2000.
XX
PF 19-JUL-1999; 99US-00357072.
XX
PR 19-JUL-1999; 99US-00357072.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Monia BP, Cowser LM, Baker BF, Zhang H;
XX
DR WPI; 2000-126316/11.
DR N-PSDB; AAZ44745.

```


QY 61 RESLRWKNTKENATVAHLVGLALRSQMNVLADLVQEVQOARDLQNRSGAMSPMS 116
 DB 142 RESLRWKNTKENATVAHLVGLALRSQMNVLADLVQEVQOARDLQNRSGAMSPMS 197

RESULT 6
 ADD25629
 ID ADD25629 standard; protein; 208 AA.
 AC ADD25629;
 XX
 DT 15-JAN-2004 (first entry)
 XX
 DE Binding domain-immunoglobulin fusion protein-associated protein #92.
 XX
 KW Binding domain; immunoglobulin; fusion protein; cytostatic;
 KW antiarthritic; immunosuppressive; antidiabetic; antithyroid;
 KW neuroprotective; hinge region; immunoglobulin heavy chain;
 KW CH2 constant region; CH3 constant region; IgG1;
 KW antibody dependent cell-mediated cytotoxicity; ADCC; complement fixation;
 KW malignant condition; B-cell disorder; melanoma; carcinoma; sarcoma;
 KW rheumatoid arthritis; myasthenia gravis; Grave's disease;
 KW type I diabetes mellitus; multiple sclerosis; autoimmune disease.
 XX
 OS Unidentified.
 XX
 PN US2003118592-A1.
 XX
 PD 26-JUN-2003.
 XX
 XX 25-JUL-2002; 2002US-00207655.
 PF
 XX 17-JAN-2001; 2001US-0367358P.
 PR 17-JAN-2002; 2002US-00053530.
 PR 03-JUN-2002; 2002US-0385691P.
 XX
 PA (GENE-) GENE-CRAFT INC.
 XX
 PI Ledbetter JA, Hayden-Ledbetter MS, Thompson PA;
 XX WPI; 2003-801317/75.
 XX
 PT New binding domain-immunoglobulin fusion protein, useful for treating a
 PT subject having or suspected of having a malignant condition or a B-cell
 PT disorder, e.g. melanoma, Grave's disease or autoimmune disease.
 XX
 PS Disclosure; SEQ ID NO 190; 157pp; English.
 XX
 CC The invention relates to a binding domain-immunoglobulin fusion protein
 CC comprising a binding domain polypeptide that is fused to an
 CC immunoglobulin hinge region polypeptide, an immunoglobulin heavy chain
 CC CH2 constant region polypeptide that is fused to the hinge region
 CC polypeptide, and an immunoglobulin heavy chain CH3 constant region
 CC polypeptide that is fused to the CH2 constant region polypeptide. The
 CC hinge region polypeptide comprises: a wild-type human IgG1 immunoglobulin
 CC hinge region polypeptide; a mutated human IgG1 immunoglobulin hinge
 CC region polypeptide, derived from (a) having 3 or more cysteine residues;
 CC where the mutated human IgG1 immunoglobulin hinge region polypeptide
 CC contains 2 cysteine residues, where the first cysteine is not mutated; a
 CC mutated human IgG1 immunoglobulin hinge region polypeptide, derived from
 CC (a) having 3 or more cysteine residues, where the mutated human IgG1
 CC immunoglobulin hinge region polypeptide contains no more than one
 CC cysteine residue; and a mutated human IgG1 immunoglobulin hinge region
 CC polypeptide, derived from (a) having 3 or more cysteine residues; where
 CC the mutated human IgG1 immunoglobulin hinge region polypeptide contains
 CC no cysteine residues. The binding domain-immunoglobulin fusion protein is
 CC capable of at least one immunological activity comprising antibody
 CC dependent cell-mediated cytotoxicity (ADCC) and complement fixation. The
 CC binding domain polypeptide is capable of specifically binding to an
 CC antigen. Also included are an isolated polynucleotide encoding the
 CC binding domain-immunoglobulin fusion protein, a recombinant expression
 CC construct comprising the polynucleotide (operably linked to a promoter),

a host cell transformed or transfected with a recombinant expression
 construct, producing the binding domain-immunoglobulin fusion protein, a
 pharmaceutical composition comprising the binding domain-immunoglobulin
 fusion protein or polynucleotide and a carrier, and treating a subject
 having or suspected of having a malignant condition or a B-cell disorder.
 The binding domain-immunoglobulin fusion protein is useful for treating a
 subject having or suspected of having a malignant condition or a B-cell
 disorder, e.g. melanoma, carcinoma or sarcoma, rheumatoid arthritis,
 myasthenia gravis, Grave's disease, type I diabetes mellitus, multiple
 sclerosis or autoimmune disease. The present sequence is a binding domain
 -immunoglobulin fusion protein-associated protein sequence. Note: The
 sequence data for this patent formed part of the printed specification
 and is also available in electronic format directly from USPTO at
 seqdata.uspto.gov/sequence.html?DocID=20030118592. The authors have not
 identified the sequences in the printed specification by their SEQ ID
 number therefore none of the sequences can be explicitly identified.

Sequence 208 AA;
 Query Match 100.0%; Score 593; DB 7; Length 208;
 Best Local Similarity 100.0%; Pred. No. 1.9e-63;
 Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 FEAGAAAGAAAGGEEDLCAAFNVICDNVGVKDWRRRLARQLKVSIDTKIDSDRYPRNLTERV 60
 DB 82 FEAGAAAGAAAGGEEDLCAAFNVICDNVGVKDWRRRLARQLKVSIDTKIDSDRYPRNLTERV 141
 QY 61 RESLRWKNTKENATVAHLVGLALRSQMNVLADLVQEVQOARDLQNRSGAMSPMS 116
 DB 142 RESLRWKNTKENATVAHLVGLALRSQMNVLADLVQEVQOARDLQNRSGAMSPMS 197

RESULT 7
 ADD25623
 ID ADD25623 standard; protein; 208 AA.
 AC ADD25623;
 XX
 DT 15-JAN-2004 (first entry)
 XX
 DE Binding domain-immunoglobulin fusion protein-associated protein #89.
 XX
 KW Binding domain; immunoglobulin; fusion protein; cytostatic;
 KW antiarthritic; immunosuppressive; antidiabetic; antithyroid;
 KW neuroprotective; hinge region; immunoglobulin heavy chain;
 KW CH2 constant region; CH3 constant region; IgG1;
 KW antibody dependent cell-mediated cytotoxicity; ADCC; complement fixation;
 KW malignant condition; B-cell disorder; melanoma; carcinoma; sarcoma;
 KW rheumatoid arthritis; myasthenia gravis; Grave's disease;
 KW type I diabetes mellitus; multiple sclerosis; autoimmune disease.
 XX
 OS Unidentified.
 XX
 PN US2003118592-A1.
 XX
 PD 26-JUN-2003.
 XX
 XX 25-JUL-2002; 2002US-00207655.
 PF
 XX 17-JAN-2001; 2001US-0367358P.
 PR 17-JAN-2002; 2002US-00053530.
 PR 03-JUN-2002; 2002US-0385691P.
 XX
 PA (GENE-) GENE-CRAFT INC.
 XX
 PI Ledbetter JA, Hayden-Ledbetter MS, Thompson PA;
 XX WPI; 2003-801317/75.
 XX
 PT New binding domain-immunoglobulin fusion protein, useful for treating a
 PT subject having or suspected of having a malignant condition or a B-cell
 PT disorder, e.g. melanoma, Grave's disease or autoimmune disease.
 XX

PS Disclosure; SEQ ID NO 184; 157pp; English.

XX The invention relates to a binding domain-immunoglobulin fusion protein
CC comprising a binding domain polypeptide that is fused to an
CC immunoglobulin hinge region polypeptide, an immunoglobulin heavy chain
CC CH2 constant region polypeptide that is fused to the hinge region
CC polypeptide, and an immunoglobulin heavy chain CH3 constant region
CC polypeptide that is fused to the CH2 constant region polypeptide. The
CC hinge region polypeptide comprises: a wild-type human IgG1 immunoglobulin
CC hinge region polypeptide; a mutated human IgG1 immunoglobulin hinge
CC region polypeptide, derived from (a) having 3 or more cysteine residues;
CC where the mutated human IgG1 immunoglobulin hinge region polypeptide
CC contains 2 cysteine residues, where the first cysteine is not mutated; a
CC mutated human IgG1 immunoglobulin hinge region polypeptide, derived from
CC (a) having 3 or more cysteine residues, where the mutated human IgG1
CC immunoglobulin hinge region polypeptide contains no more than one
CC cysteine residue; and a mutated human IgG1 immunoglobulin hinge region
CC polypeptide, derived from (a) having 3 or more cysteine residues; where
CC the mutated human IgG1 immunoglobulin hinge region polypeptide contains
CC no cysteine residues. The binding domain-immunoglobulin fusion protein is
CC capable of at least one immunological activity comprising antibody
CC dependent cell-mediated cytotoxicity (ADCC) and complement fixation. The
CC binding domain polypeptide is capable of specifically binding to an
CC antigen. Also included are an isolated polynucleotide encoding the
CC binding domain-immunoglobulin fusion protein, a recombinant expression
CC construct comprising the polynucleotide (operably linked to a promoter),
CC a host cell transformed or transfected with a recombinant expression
CC construct, producing the binding domain-immunoglobulin fusion protein, a
CC pharmaceutical composition comprising the binding domain-immunoglobulin
CC fusion protein or polynucleotide and a carrier, and treating a subject
CC having or suspected of having a malignant condition or a B-cell disorder.
CC The binding domain-immunoglobulin fusion protein is useful for treating a
CC subject having or suspected of having a malignant condition or a B-cell
CC disorder, e.g. melanoma, carcinoma or sarcoma, rheumatoid arthritis,
CC myasthenia gravis, Grave's disease, type I diabetes mellitus, multiple
CC sclerosis or autoimmune disease. The present sequence is a binding domain
CC -immunoglobulin fusion protein-associated protein sequence. Note: The
CC sequence data for this patent formed part of the printed specification
CC and is also available in electronic format directly from USPTO at
CC seqdata.uspto.gov/sequence.html?docID=20030118592. The authors have not
CC identified the sequences in the printed specification by their SEQ ID
CC number therefore none of the sequences can be explicitly identified.

XX Sequence 208 AA;

Query Match 100.0%; Score 593; DB 7; Length 208;
Best Local Similarity 100.0%; Pred. No. 1.9e-63;
Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FEAGAAAGAPGEEDLCAAFNVICDNGKDWRLARQLKVSQDTKIDSDIEDRYPNLTERV 60
Db 82 FEAGAAAGAPGEEDLCAAFNVICDNGKDWRLARQLKVSQDTKIDSDIEDRYPNLTERV 141

Qy 61 RESLRINWTEKENATVAHLVGLRSCQMLNVLADLVEVQVQARDLQNRSGAMSPMS 116
Db 142 RESLRINWTEKENATVAHLVGLRSCQMLNVLADLVEVQVQARDLQNRSGAMSPMS 197

RESULT 8
ABM81285
ID ABM81285 standard; protein; 208 AA.

XX ABM81285;

XX 18-NOV-2004 (first entry)

XX Tumour-associated antigenic target (TAT) polypeptide PRO4801, SEQ:3314.

XX Tumour-associated antigenic target; TAT; human; overexpression; cancer;
KW tumour; diagnosis; cell proliferative disorder; breast cancer;
KW colorectal cancer; lung cancer; ovarian cancer; liver cancer;
KW central nervous system cancer; bladder cancer; pancreatic cancer;
KW cervical cancer; melanoma; leukaemia; hybridisation probe;

KW chromosome identification; chromosome mapping; gene mapping;
KW gene therapy; cytostatic.

XX Homo sapiens.

XX WO2004030615-A2.

XX 15-APR-2004.

XX 29-SEP-2003; 2003WO-US028547.

XX 02-OCT-2002; 2002US-0414971P.

XX (GETH) GENENTECH INC.

XX Wu TD, Zhang Z, Zhou Y;

XX WPI; 2004-347921/32.

XX N-PSDB; ACN39272.

XX New tumor-associated antigenic target polypeptides and nucleic acids,
PT useful in preparing a medicament for treating or detecting a
PT proliferative disorder, e.g. breast, lung, colorectal, ovarian or
PT prostate cancer or tumor.

XX Claim 12; SEQ ID NO 3314; 7273pp; English.

XX The invention relates to human tumour-associated antigenic target (TAT)
CC polypeptides, and their related nucleic acids. The TAT polypeptides are
CC overexpressed in cancer tissues compared to normal tissues, and may thus
CC serve as effective targets for the diagnosis and treatment of cancer in
CC mammals. The invention also relates to nucleic acid and polypeptide
CC sequences at least 80% identical to the TAT nucleic acids and
CC polypeptides; expression vectors and host cells comprising a TAT nucleic
CC acid; an antibody specific for a TAT polypeptide; a peptide or organic
CC molecule which binds to a TAT polypeptide; fusion proteins comprising a
CC TAT polypeptide; and methods and compositions for the treatment or
CC diagnosis of cancer in mammals. TAT polypeptides, nucleic acids,
CC antibodies, antagonists, binding molecules and compositions are useful
CC for diagnosing or treating a cell proliferative disorder associated with
CC colorectal cancer, lung cancer, ovarian cancer, liver cancer, bladder
CC cancer, pancreatic cancer, cervical cancer, cancers of the central
CC nervous system, melanoma and leukaemia. TAT nucleic acids may further be
CC used as hybridisation probes, in chromosome and gene mapping, in
CC chromosome identification and in gene therapy. The present sequence
CC represents a TAT polypeptide of the invention

XX Sequence 208 AA;

Query Match 100.0%; Score 593; DB 8; Length 208;
Best Local Similarity 100.0%; Pred. No. 1.9e-63;
Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 FEAGAAAGAPGEEDLCAAFNVICDNGKDWRLARQLKVSQDTKIDSDIEDRYPNLTERV 60
Db 82 FEAGAAAGAPGEEDLCAAFNVICDNGKDWRLARQLKVSQDTKIDSDIEDRYPNLTERV 141

Qy 61 RESLRINWTEKENATVAHLVGLRSCQMLNVLADLVEVQVQARDLQNRSGAMSPMS 116
Db 142 RESLRINWTEKENATVAHLVGLRSCQMLNVLADLVEVQVQARDLQNRSGAMSPMS 197

RESULT 9
ADS88167
ID ADS88167 standard; protein; 208 AA.

XX ADS88167;

XX 18-NOV-2004 (first entry)

XX Human protein of a TNF-alpha signalling pathway protein complex SeqID 22.

KW protein complex; tumour necrosis factor-alpha signalling pathway;
 KW TNF-alpha; chronic inflammatory disease; rheumatoid arthritis;
 KW inflammatory bowel disease; infectious disease; septic shock;
 KW bacterial infection; neurological disease; stroke-induced inflammation;
 KW neurodegenerative disease; cancer; antiinflammatory; antiarthritic;
 KW antirheumatic; cytostatic; antibacterial; gene therapy; human.
 XX Homo sapiens.

OS WO2004035783-A2.

XX 29-APR-2004.

XX 24-SEP-2003; 2003WO-EP050655.

XX 26-SEP-2002; 2002EP-00021809.

PR 10-FEB-2003; 2003EP-00100274.

XX (CELL-) CELLZOME AG.

XX Boumeester T, Huhse B, Bauch A, Ruffner H, Bauer A, Kuester B;
 PI Superti-Furga G, Kruse U;

XX WPI; 2004-348460/32.

PT New protein complex comprising at least one first and second protein of
 PT the Tumor Necrosis Factor-alpha(TNF-alpha)-signaling pathway, useful for
 PT diagnosing or treating inflammation, neurological diseases, infectious
 PT diseases or cancer.

XX Example; SEQ ID NO 22; 1980pp; English.

XX This invention relates to novel protein complexes of the tumour necrosis
 CC factor-alpha (TNF-alpha) signalling pathway. Specifically, it refers to
 CC methods for preparing these complexes comprising at least two component
 CC proteins, as well as screening methods to identify modulators of the
 CC pathway, which include antibodies, agonists and antagonists thereof. The
 CC present invention describes a protein complex and kit that are useful for
 CC diagnosing, prognosing or treating chronic inflammatory diseases such as
 CC rheumatoid arthritis and inflammatory bowel disease; infectious diseases
 CC such as septic shock and bacterial infections; neurological diseases such
 CC as stroke-induced inflammation in neurons; neurodegenerative diseases and
 CC cancer. Accordingly, these complexes can be used for the development of
 CC pharmaceutical compositions that exhibit antiinflammatory, antiarthritic,
 CC antirheumatic, cytostatic and antibacterial activities and can be used
 CC for gene therapy purposes. In particular, the invention further provides
 CC siRNA-oligonucleotides useful for inhibiting protein expression for in
 CC vitro or cell culture assays. This polypeptide is a human protein that
 CC can be used in combination with other proteins provided in the
 CC specification to form novel complexes of the TNF-alpha signalling pathway
 CC of the invention.

XX Sequence 208 AA;

Query Match 100.0%; Score 593; DB 8; Length 208;
 Best Local Similarity 100.0%; Pred. No. 1.9e-63;
 Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FEAGAAAGAPGEEDLCAAFNVICDNGKDWRRRLAROLKVSDFKIDSDIEDRYPRNLTGV 60

DB 82 FEAGAAAGAPGEEDLCAAFNVICDNGKDWRRRLAROLKVSDFKIDSDIEDRYPRNLTGV 141

QY 61 RESLRWKNTKENATVAHLVGLALRSQMNVLADLVQEVQQAARDLQNRSGAMSPMS 116

DB 142 RESLRWKNTKENATVAHLVGLALRSQMNVLADLVQEVQQAARDLQNRSGAMSPMS 197

RESULT 10

ADD25847

XX ID ADD25847 standard; protein; 211 AA.

XX AC ADD25847;

XX

DT 15-JAN-2004 (first entry)
 XX Binding domain-immunoglobulin fusion protein-associated protein #183.
 DE Binding domain; immunoglobulin; fusion protein; antistatic;
 XX antiarthritic; immunosuppressive; antidiabetic; antithyroid;
 KW neuroprotective; hinge region; immunoglobulin heavy chain;
 KW CH2 constant region; CH3 constant region; IgG1; ADCC; complement fixation;
 KW antibody dependent cell-mediated cytotoxicity; melanoma; carcinoma;
 KW malignant condition; B-cell disorder; myasthenia gravis; Grave's disease;
 KW rheumatoid arthritis; multiple sclerosis; autoimmune disease.
 XX type I diabetes mellitus; multiple sclerosis; autoimmune disease.
 OS Unidentified.
 XX US2003118592-A1.
 XX 26-JUN-2003.
 XX 25-JUL-2002; 2002US-00207655.
 XX 17-JAN-2001; 2001US-0367358P.
 PR 17-JAN-2002; 2002US-00053530.
 PR 03-JUN-2002; 2002US-0385691P.
 XX (GENE-) GENE-CRAFT INC.
 XX Ledbetter JA, Hayden-Ledbetter MS, Thompson PA;
 PI WPI; 2003-801317/75.
 XX New binding domain-immunoglobulin fusion protein, useful for treating a
 PT subject having or suspected of having a malignant condition or a B-cell
 PT disorder, e.g. melanoma, Grave's disease or autoimmune disease.
 XX Disclosure; SEQ ID NO 408; 157pp; English.
 XX The invention relates to a binding domain-immunoglobulin fusion protein
 CC comprising a binding domain polypeptide that is fused to an
 CC immunoglobulin hinge region polypeptide, an immunoglobulin heavy chain
 CC CH2 constant region polypeptide that is fused to the hinge region
 CC polypeptide, and an immunoglobulin heavy chain CH3 constant region
 CC polypeptide that is fused to the CH2 constant region polypeptide. The
 CC hinge region polypeptide comprises: a wild-type human IgG1 immunoglobulin
 CC hinge region polypeptide; a mutated human IgG1 immunoglobulin hinge
 CC region polypeptide; derived from (a) having 3 or more cysteine residues;
 CC where the mutated human IgG1 immunoglobulin hinge region polypeptide
 CC contains 2 cysteine residues, where the first cysteine is not mutated; a
 CC mutated human IgG1 immunoglobulin hinge region polypeptide, derived from
 CC (a) having 3 or more cysteine residues, where the mutated human IgG1
 CC immunoglobulin hinge region polypeptide contains no more than one
 CC cysteine residue; and a mutated human IgG1 immunoglobulin hinge region
 CC polypeptide, derived from (a) having 3 or more cysteine residues; where
 CC the mutated human IgG1 immunoglobulin hinge region polypeptide contains
 CC no cysteine residues. The binding domain-immunoglobulin fusion protein is
 CC capable of at least one immunological activity comprising antibody
 CC dependent cell-mediated cytotoxicity (ADCC) and complement fixation. The
 CC binding domain polypeptide is capable of specifically binding to an
 CC antigen. Also included are an isolated polynucleotide encoding the
 CC binding domain-immunoglobulin fusion protein, a recombinant expression
 CC construct comprising the polynucleotide (operably linked to a promoter),
 CC a host cell transformed or transfected with a recombinant expression
 CC construct, producing the binding domain-immunoglobulin fusion protein, a
 CC pharmaceutical composition comprising the binding domain-immunoglobulin
 CC fusion protein or polynucleotide and a carrier, and treating a subject
 CC having or suspected of having a malignant condition or a B-cell disorder.
 CC The binding domain-immunoglobulin fusion protein is useful for treating a
 CC subject having or suspected of having a malignant condition or a B-cell
 CC disorder, e.g. melanoma, carcinoma or sarcoma, rheumatoid arthritis,
 CC myasthenia gravis, Grave's disease, type I diabetes mellitus, multiple
 CC sclerosis or autoimmune disease. The present sequence is a binding domain
 CC immunoglobulin fusion protein-associated protein sequence. Note: The
 CC sequence data for this patent formed part of the printed specification

CC and is also available in electronic format directly from USPTO at
 CC seqdata.uspto.gov/sequence.html?DocID=20030118592. The authors have not
 CC identified the sequences in the printed specification by their SEQ ID
 CC number therefore none of the sequences can be explicitly identified.

XX SQ Sequence 211 AA;
 Query Match 100.0%; Score 593; DB 7; Length 211;
 Best Local Similarity 100.0%; Pred. No. 1.9e-63;
 Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 FEAGAAAGAAAGPGEEDLCAAFNVICDNVGDWRRLARQLKVSOTKIDSIEDRYPRNLTERV 60
 DB 85 FEAGAAAGAAAGPGEEDLCAAFNVICDNVGDWRRLARQLKVSOTKIDSIEDRYPRNLTERV 144
 QY 61 RESLRWKNTKENATVAHLVGLRSQCNVLVADLVQEVQOARDLQNRSGAMSPMS 116
 DB 145 RESLRWKNTKENATVAHLVGLRSQCNVLVADLVQEVQOARDLQNRSGAMSPMS 200

RESULT 11
 AAR98346
 ID AAR98346 standard; protein; 256 AA.

XX AAR98346;
 XX 13-SEP-1996 (first entry)
 DT MORT-1 modulator of FAS receptor.
 DE MORT-1; HFL1; FAS/AP01 receptor; FAS-R; tumour; cancer; HIV;
 KW mediator of receptor toxicity; gene therapy.

XX Homo sapiens.

XX Key Location/Qualifiers
 XX Domain 160..221
 XX /label= Death domain

XX WO9618641-A1.
 XX 20-JUN-1996.
 XX 14-DEC-1995; 95WO-USO16542.
 XX 15-DEC-1994; 94IL-00112022.
 XX 19-FEB-1995; 95IL-00112692.
 XX 16-JUL-1995; 95IL-00114615.

XX (YEDA) YEDA RES & DEV CO LTD.
 XX (WEIN/) WEINWURZEL H.

XX Wallach D, Boldin M, Varfolomeev E, Mett I;

XX WPI; 1996-300569/30.
 XX N-PSDB; AAT30372.

XX MORT-1 protein capable of interacting with FAS-R intracellular domain -
 XX useful for modulating FAS-R ligand effect on cells and treating, e.g.
 XX tumour cells and HIV-infected cells.

XX Claim 5; Fig 4; 72pp; English.

XX MORT-1 (AAR98346) (Mediator of Receptor Toxicity), also designated HFL1,
 CC is a novel protein that binds to the intracellular domain (FAS-IC) of the
 CC FAS ligand receptor FAS-R (or FAS/AP01), and is capable of modulating the
 CC function of Fas-R. MORT-1 is also capable of self-association and can
 CC activate cell cytotoxicity on its own. Recombinant MORT-1 can be obtd.
 CC from host cells transfected with a vector carrying a cDNA clone
 CC (AAT30372) isolated from HeLa cells. MORT-1 can be used to modulate the
 CC FAS-R ligand on cells carrying an FAS-R. It can also be used to treat
 CC tumour cells or HIV-infected cells, or to raise antibodies

SQ Sequence 256 AA;

Query Match 100.0%; Score 593; DB 2; Length 256;
 Best Local Similarity 100.0%; Pred. No. 2.5e-63;
 Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 FEAGAAAGAAAGPGEEDLCAAFNVICDNVGDWRRLARQLKVSOTKIDSIEDRYPRNLTERV 60
 DB 130 FEAGAAAGAAAGPGEEDLCAAFNVICDNVGDWRRLARQLKVSOTKIDSIEDRYPRNLTERV 189
 QY 61 RESLRWKNTKENATVAHLVGLRSQCNVLVADLVQEVQOARDLQNRSGAMSPMS 116
 DB 190 RESLRWKNTKENATVAHLVGLRSQCNVLVADLVQEVQOARDLQNRSGAMSPMS 245

RESULT 12
 AAW11894
 ID AAW11894 standard; protein; 256 AA.

XX AAW11894;

XX 25-MAR-2003 (revised)
 DT 29-OCT-1997 (first entry)

XX Modulator of cellular toxicity (MORT-1).

XX MACH; MORT-1 binding protein; mediator of receptor toxicity; cell death;
 KW antibody; FAS ligand receptor; FAS-R; death domain region; septic shock;
 KW tumour necrosis factor; tumour; HIV-infection; oligodendrocyte death;
 KW apoptosis/programmed cell death; p55-R; graft rejection; acute hepatitis;
 KW autoimmune disease; multiple sclerosis; AIDS-inhibited T-cell suicide;
 KW TNF; therapy.

XX Homo sapiens.

XX WO9703998-A1.

XX 06-FEB-1997.

XX 14-JUN-1996; 96WO-USO10521.

XX 16-JUL-1995; 95IL-00114615.

XX 17-AUG-1995; 95IL-00114986.

XX 14-SEP-1995; 95IL-00115319.

XX 27-DEC-1995; 95IL-00116588.

XX 16-APR-1996; 96IL-00117932.

XX (YEDA) YEDA RES & DEV CO LTD.

XX (WEIN/) WEINWURZEL H.

XX Wallach D, Boldin M, Goncharov T, Goltsev YV;

XX WPI; 1997-132570/12.

XX N-PSDB; AAT61397.

XX New DNA encoding MACH protein that interacts with MORT-1 protein - to
 XX mediate intracellular effects of FAS or TNF receptors, partic. for
 XX regulating apoptosis in tumours, virus-infected cells etc.

XX Disclosure; Page 102-103; 163pp; English.

XX This sequence represents the mediator of cellular toxicity (MORT-1)
 CC protein. This sequence is bound by the protein of the invention (see
 CC AAW11892), designated MACH. MORT-1 binds to the FAS ligand receptor (FAS-
 CC R) death domain region, and triggers part of the cell death signalling
 CC cascade in mammalian cells. Vectors containing MACH, the MACH protein,
 CC and antibodies (Ab) against it are used to modulate the effect of FAS-R
 CC ligand or TNF on cells that carry FAS-R or p55-R. This is specifically
 CC for treating tumours, HIV-infected cells or other diseased cells, by
 CC control of apoptosis/programmed cell death. The MACH protein is a
 CC mediator of the cell death pathway initiated by TNF and FAS-R binding,
 CC i.e. it mimics or enhances the effect of MORT-1 where increased
 CC cytotoxicity is required. To inhibit the effect of MORT-1, e.g. in cases

Best Local Similarity 99.1%; Pred. No. 5.8e-63;
Matches 115; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FEAGAAAGAAAGGEEEDLCAAFNVCNNGKDWRLARQLKVSQTKIDSIEDRYPRNLTERV 60
DB 82 FEAGAAAGAAAGGEEEDLCAAFNVCNNGKDWRLARQLKVSQTKIDSIEDRYPRNLTERV 141
QY 61 RESLRWKTEKENATVAHLVGLALRSQMNVLVADLVQEVQQAARDLQNRSGAMSPMS 116
DB 142 RESLRWKTEKENATVAHLVGLALRSQMNVLVADLVQEVQQAARDLQNRSGAMSPMS 197

RESULT 15
AAW87491
ID AAW87491 standard; protein; 201 AA.
XX
AC AAW87491;
XX
DT 12-FEB-1999 (first entry)
XX
DE Amino acid sequence of MORT1 isoform MORT1del21 from NTERA2 cells.
XX
KW MORT1; MORT1del21; NTERA2; CNS; isoform; death domain; Fas/AP01;
KW MACH alpha1; ICE/Ced3; caspase; anti-apoptotic; gene therapy;
KW in vivo agent; neuronal apoptosis; human.
XX
OS Homo sapiens.
XX
PN WO9849297-A1.
XX
PD 05-NOV-1998.
XX
PF 14-APR-1998; 98WO-US0007439.
XX
PR 25-APR-1997; 97US-0044835P.
XX
PA (AMHP) AMERICAN HOME PROD CORP.
XX
PI Bingham BW, Young KH, Wood AT, Birsan C;
XX
DR WPI; 1999-009424/01.
DR N-PSDB; AAV71928.
XX
PT Human, neuronal MORT1 isoform(s) - used as screening agents in
PT diagnosing CNS diseases, and in discovering CNS-specific anti-apoptotic
PT compounds.
XX
PS Claim 5; Page 26-27; 31pp; English.
XX
CC This represents the amino acid sequence of a MORT1 isoform MORT1del21.
CC The encoding cDNA was isolated from NTERA2 cells and deposited under the
CC accession number ATCC 209013. The cDNA has a 21 base pair deletion as
CC compared to the published MORT1 sequence (bp 172-192 of the coding
CC sequence). The invention relates to three MORT1 nucleic acid isoforms
CC (AAV71928 to AAV71930) that encode proteins which can interact with the
CC death domain of Fas/AP01. The MORT1 isoforms can also interact with MACH
CC alpha1 or other members of the ICE/Ced3 (Caspase) family of proteins. The
CC transcrip isoforms, together with their encoded proteins are useful as
CC screening agents in diagnosing CNS diseases, and in discovering CNS-
CC specific anti-apoptotic compounds. They are useful in gene therapy either
CC as in vivo agents in humans or as experimental tools in manipulating
CC neuronal apoptosis in cell culture and animal model systems

Query Match 98.8%; Score 586; DB 2; Length 201;
Best Local Similarity 99.1%; Pred. No. 1.3e-62;
Matches 115; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 FEAGAAAGAAAGGEEEDLCAAFNVCNNGKDWRLARQLKVSQTKIDSIEDRYPRNLTERV 60
DB 75 FEAGAAAGAAAGGEEEDLCAAFNVCNNGKDWRLARQLKVSQTKIDSIEDRYPRNLTERV 134

QY 61 RESLRWKTEKENATVAHLVGLALRSQMNVLVADLVQEVQQAARDLQNRSGAMSPMS 116
DB 135 RESLRWKTEKENATVAHLVGLALRSQMNVLVADLVQEVQQAARDLQNRSGAMSPMS 190

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Job time : 79 secs

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